

ABSTRACT

Known protective layers with a high Al and/or Cr content and additionally strengthened by Re form brittle phases which become more brittle during use under the influence of carbon. The protective layer according to the invention has the composition 0.5 to 2% rhenium, 24 to 26% cobalt, 15 to 21% chromium, 9 to 11.5% aluminum, 0.05 to 0.7% yttrium and/or at least one equivalent metal selected from the group consisting of scandium and the rare earth elements, 0 to 1% ruthenium, remainder cobalt and/or nickel and manufacturing-related impurities, and reveals scarcely any embrittlement caused by Cr/Re precipitates.